Surgical Neurology

An International Neurosurgical Journal

Volume Contents
Volume 42, Number 1, July 1994

EDITORIALS

From Pediatrics to Geriatrics and From the Ancient to the Modern	J.I. Ausman	1
Have Neurosurgeons Lost Their Chance to Treat the Patient with Spine Problems, Vascular Disease, and Peripheral Nerve Problems? What Else Is Next?	J.I. Ausman	1

NEOPLASM

The Surgical Management of Benign Intracranial Meningiomas and Acoustic Neuromas in Patients 70 Years of Age and Older	K.M. McGrail and R.G. Ojemann	2
Mast Cell-Rich Convexity Meningioma Presenting as Chronic Subdural Hematoma: Case Report and Review of the Literature	E.A. Popovic, M.K. Lyons, B.W. Scheithauer, and W.R. Marsh	8
Multicentric Glioma Studied with Positron Emission Tomography: A Case Report	K. Sato, M. Kameyama, K. Ishiwata, T. Kayama, T. Yoshimoto, and M. Ito	14
Pituitary Apoplexy Caused by Endocrine Stimulation Tests: A Case Report	O. Okuda, H. Umezawa, and M. Miyaoka	19

SPINE

Delayed Worsening of the Surgical Correction of Angular and Axial Deformity Consequent to Burst Fractures of the Thoracolumbar or Lumbar Spine	C. Bernucci, M. Maiello, C. Silvestro, N. Francaviglia, R. Bragazzi, A. Pau, and G.L. Viale	23
Spinal Extradural Arteriovenous Malformation Presenting with Recurrent Hemorrhage and Intermittent Paraplegia: Case Report and Review of the Literature	R.R. Sharma, F. Selmi, I.P. Cast, and C. O'Brien	26

PEDIATRICS

Magnetic Resonance Angiography in the Management of Childhood Moyamoya Disease: First Choice for Neurovascular Scrutiny	Y. Makiyama, H. Nishimoto, T. Aihara, and T. Tsubokawa	32
Intraventricular Malignant Meningioma in a 6-Year Old Child	S. Sgouros, A.R. Walsh, and P. Barber	41

VASCULAR
Peripheral Anterior Inferior Cerebellar Artery Aneurysms — K. Kamiya, H. Nagai, K. Koide, N. Yamashita, and N. Shimazu — 46

Bilateral Third Cranial Nerve Palsies in Association with a Ruptured Anterior Communicating Artery Aneurysm — T.J. Coyne and M.C. Wallace — 52

Disturbance of Autoregulation in Patients with Ruptured Intracranial Aneurysms: Mechanism of Cortical and Motor Dysfunction — H. Touho and H. Ueda — 57

TRAUMA
Ossified and Calcified Epidural Hematoma Incidentally Found 40 Years after Head Injury: Case Report — M. Nagane, H. Oyama, S. Shibui, K. Nomura, Y. Nakanishi, and M. Kamiya — 65

INFLAMMATION
Central Diabetes Insipidus Caused by Nonspecific Chronic Inflammation of the Hypothalamus: Case Report — A. Watanabe, R. Ishii, K. Hirano, Y. Suzuki, H. Okamura, M. Kamada, K. Ichihashi, T. Kitahata, and T. Shirabe — 70

A Case of Lymphocytic Hypophysitis with Massive Fibrosis and the Role of Surgical Intervention — H. Nishioka, H. Ito, T. Miki, and K. Akada — 74

COAGULOPATHY
Uncomplicated Stereotactic and Open Neurosurgical Procedures in Patients with Factor VII Deficiency — S.E. Doran, T.R. Henry, P.L. Bockenstedt, and D.A. Ross — 79

HISTORY
Anecdotes from the History of Trephining — P. Bailey — 83

BOOK REVIEW — 91

NEWS NOTES — 92

ANNOUNCEMENTS — 93

Volume 42, Number 2, August 1994

EDITORIAL — J.I. Ausman — 97

NEOPLASM/SKULL BASE TUMORS
Ethmoid Sinus Carcinomas: Results and Prognosis after Neoadjuvant Chemotherapy and Combined Surgery—A 10-Year Experience — F.X. Roux, D. Brasnu, B. Devaux, E. Chabardes, G. Schwaab, O. Laccourreye, M. Menard, F. Janot, S. Nguyen, J. Bertrand, and J.F. Meder — 98

Surgical Treatment of Petroclival Meningiomas: Experience with 16 Cases — G. Cantore, R. Delfini, and P. Ciappetta — 105

NEOPLASM
A Case of Cushing's Disease Accompanied by Rathke's Cleft Cyst: The Usefulness of Cavernous Sinus Sampling in the Localization of Microadenoma — K. Arita, T. Uozumi, A. Takechi, T.Hirohata, B. Pant, K. Kubo, K. Tanaka — 112

Malignant Lymphoma of the Scalp at the Site of a Previous Blunt Trauma: Report of Two Cases — T. Morioka, T. Tashima, S. Nishio, E. Nishie, M. Fukui, T. Okamura — 117

PEDIATRICS
Primary Cerebellar Yolk Sac Tumor: Case Report — T. Fujiwara, Y. Honjo, S. Nagao, C. Honda, Y. Baba, T. Ohmoto — 121

Unilateral Vestibular Schwannoma in a Child with Prior Orbital Rhabdomyosarcoma — D. Kim, D.E. Born, M.S. Berger, M.R. Mayberg — 125

VASCULAR
Ultra-early Rebleeding within Six Hours after Aneurysmal Rupture — T. Inagawa — 130

Emergency Embolectomy of Middle Cerebral Artery Occlusion Due to Microcoil Migration: Case Report — A. Vázquez-Barquero, F. Quintana, O. Austin, and J.M. Izquierdo — 135

Reversibility of Transient Focal Cerebral Ischemia Evaluated by Somatosensory Evoked Potentials in Cats — H. Minamide, H. Onishi, J. Yamashita, and K. Ikeda — 138

SPINE
Intravascular Treatment of Spinal Arteriovenous Malformations Using a Microcatheter—With Special Reference to Serial Xylocaine Tests and Intravascular Pressure Monitoring — H. Touho, J. Karasawa, H. Ohnishi, K. Yamada, M. Ito, and A. Kinoshita — 148

Giant Neurinoma Occupying the Holocervical and Upper Thoracic Regions: Case Report — S. Nagasawa, T. Ohta, Y. Kajimoto, J. Aoki, T. Onomura, and Y. Miyaji — 157

INFECTION
Mycotic Aneurysm Accompanied by Aspergillotic Granuloma: A Case Report — M. Kurino, J. Kuratsu, T. Yamaguchi, and Y. Ushio — 160

TRAUMA
Growing Fracture of the Skull: Report of an Unusual Case — F.B. Singh, V.K. Khosla, S.K. Gupta, and K.S.M. Prasad — 165

Historical Vignette — E. Alexander — 168

SPECIAL ARTICLE
What's a Woman Doing in a Place Like This? Presidential Address — C.A. Miller — 171

EDITORIAL
Are You Bored? Do You Need Something Challenging to Do? — J.I. Ausman — 177

ANNOUNCEMENT
WFNS Newsletter—Spring 1994 — J.I. Ausman — 179

LETTERS TO THE EDITOR — 183

BOOK REVIEWS — 184

ANNOUNCEMENTS — 187

Volume 42, Number 3, September 1994

EDITORIAL

In This Issue — J.I. Ausman — 193

PEDIATRICS

Surgical Management of Cavernous Angiomas in Children — M. Giulioni, N. Acciarri, R. Padovani, F. Frank, E. Galassi, and G. Gaist — 194

Clinical Evaluation of 33 Patients with Histologically Verified Germinoma — K. Sugiyama, T. Uozumi, K. Arita, K. Kiya, K. Kurisu, M. Sumida, and K. Harada — 200

Subtentorial Diverticulum of the Third Ventricle Associated with a Mural Cavernous Angioma in a Child — Z.A.B. Jamjoom, S. Abdul-Aziz, A.-H. Jamjoom, N.-U.-Rahman, and M. Abdul-Jabbar — 211

HYDROCEPHALUS: SHUNTS

Percutaneous Flexible Neuroendoscopic Ventriculostomy in Patients with Shunt Malfunction as an Alternative Procedure to Shunt Revision — M. Yamamoto, K. Oka, K. Ikeda, and M. Tomonaga — 218

Cerebrospinal Fluid Leakage from the Nipple after Ventriculoperitoneal Shunt: Case Report — A. Nakano, E. Tani, M. Sato, and Y. Shimizu — 224

Cerebrospinal Fluid Galactorrhea after Ventriculopleural Shunting: Case Report — M.A. Morón and D.L. Barrow — 227

Long-Term Lumboureteral Shunt Removed Secondary to Iatrogenic Meningitis — P.C. Ferrera, L. Thibodeau, and J. Shillito — 231

VASCULAR

Central Nervous System Arteriovenous Malformations with Hereditary Hemorrhagic Telangiectasia: Report of a Family with Three Cases — C. Kadoya, Y. Momota, Y. Ikegami, E. Urasaki, S.-I. Wada, and A. Yokota — 234

Diagnosis of Traumatic Carotid Artery Dissection by Transcranial Doppler Ultrasound: Case Report and Review of the Literature — H.A.M. Achtereekte, R.A. van der Kruijk, R.E.M. Hekster, and W.M. Keunen — 240

Magnetic Resonance Angiography in the Diagnosis of Traumatic Vertebrobasilar Complications: A Report of Two Cases — V.C. Prabhu, A.-A. Patil, L.C. Hellbusch, J.R. McConnell, and L.G. Leibrock — 245

NEOPLASM

The Prevention of Radiosurgery-induced Nausea and Vomiting by Ondansetron: Evidence of a Direct Effect on the Central Nervous System Chemoreceptor Trigger Zone — S. Bodis, E. Alexander III, H. Kooy, and J.S. Loeffler — 249

Pineal Yolk Sac Tumor in a 65-Year-Old Man — M. Kirikae, H. Arai, T. Hidaka, J. Kidoguchi, K. Miura, A. Kitakami, Y. Yoshida, A. Ogawa, and S. Sasoh — 253

SPINE

Posterior Cervical Fusion with Methylmethacrylate, Wire, and Bone: Technical Note — D. Awasthi and R.M. Voorhies — 259

ANATOMY: SKULL BASE
The Transcondylar Approach to the Jugular Foramen: A Comparative Anatomic Study — D.M. Seyfried and J.P. Rock — 265

HISTORY
Franz Josef Gall and His Contribution to Neuroanatomy with Emphasis on the Brain Stem — C.E. Rawlings, III and E. Rossitch, Jr. — 272

EDITORIAL
What Are We Missing? The Case for Spinal Angiography — J.I. Ausman — 276

LETTERS TO THE EDITOR — 278

BOOK REVIEWS — 279

Volume 42, Number 4, October 1994

EDITORIAL
In This Issue. . . . — J.I. Ausman — 281

SPINE
Observations on Spontaneous Recovery from Intervertebral Disc Herniation — C.A. Fager — 282

VASCULAR
Comparison of Three-Dimensional Phase-Contrast Magnetic Resonance Angiography with Three-Dimensional Time-of-Flight Magnetic Resonance Angiography in the Cerebral Aneurysms — F. Ikawa, M. Sumida, T. Uozumi, S. Kuwabara, K. Kiya, K. Kurisu, K. Arita, and H. Saton — 287

Ruptured Non-traumatic Fusiform Aneurysm of the Cavernous Carotid Presenting with Multiple Episodes of Epistaxis — M.B. Pritz — 293

Total Excision of a Thalamic Arteriovenous Malformation Using an Orbito-Fronto-Malar Approach: Case Report — H. Touho, Ohnishi, J. Karasawa, H. Nakase, Y. Watabe, and N. Furuoka — 297

TRAUMA
Peritoneal Dialysis to Induce Hypothermia in a Head Injured Patient — L.C. Cancio, W.G. Wortham, and F. Zimba — 303

Subperiosteal Hematoma of the Orbit Associated with Subfrontal Extradural Hematoma: Case Report — O.R. O'Neill, J.B. Delashaw, and J.P. Phillips — 308

Traumatic Posterior Cerebral Artery Aneurysm Secondary to an Intracranial Nail: Case Report — A.R. Rezai, M. Lee, C. Kite, D. Smyth, and J.J. Jafar — 312

Chronic Subdural Hematoma Associated with Middle Meningeal Arteriovenous Fistula Treated by a Combination of Embolization and Bur Hole Drainage — M. Komiyama, T. Yasui, K. Tamura, Y. Nagata, Y. Fu, and H. Yagura — 316

PEDIATRIC NEUROSURGERY: INFECTION
Intraorbital Extraocular Tuberculosis: A Report of Three Cases — S. Patkar, B.K. Singhania, and A. Agrawal — 320

INFECTION
Intracranial Epidural Tuberculoma Presenting as a Scalp Swelling — Z.A.B. Jamjoom, H.M. Assaf, F. Hamid, Q. Haddad, A.-H.B. Jamjoom, and N.-U.-Rahman — 322

NEOPLASM
Full Recovery from Deafness After Removal of a Large Acoustic Neurinoma Associated with Neurofibromatosis 2. Case Report — T. Kawaguchi, R. Tanaka, S. Kameyama, and H. Yamazaki — 326

Large Pituitary Adenoma of the Sphenoid Sinus and the Nasopharnyx: Report of a Case with Ultrastructural Evaluations — K. Kikuchi, M. Kowada, J. Sasaki, and M. Sageshima — 330

Central Neurocytoma without Intraventricular Extension — S. Sgouros, A. Jackowski, and M.P. Carey — 335

Brain Metastasis from Urachal Carcinoma: Case Report — M.K. Tewari, V.K. Khosla, B.S. Sharma, R.K. Vashistha, N.K. Khandelwal, and V.K. Kak — 340

Scalp Hibernoma: Case Report and Literature Review — C.A. Muszynski, D.P. Robertson, J.C. Goodman, and D.S. Baskin — 343

DEVELOPMENTAL
Two Cases of Symptomatic Interhemispheric Arachnoid Cyst in the Elderly — M. Watanabe, S. Kameyama, N. Takeda, and R. Tanaka — 346

EXPERIMENTAL
Acute Brain Swelling in Cerebral Embolization Model of Rats II: Biochemical Study — K. Yamane, T. Shima, Y. Okada, L. Csiba, and T. Uozumi — 352

HISTORICAL VIGNETTE
When Pavlov Visited America — E. Alexander Jr. — 358

SPECIAL EDITORIAL
The Multifaceted Neurosurgeon — E. Alexander Jr. — 360

EDITORIAL
Why Patients with Spine Problems are going to Someone Else — J.I. Ausman — 361

BOOK REVIEWS — 362

ANNOUNCEMENTS — 367

Volume 42, Number 5, November 1994

EDITORIAL
The Difficult We Do Immediately—The Impossible Takes a Little Longer — J.I. Ausman — 373

VASCULAR
Cerebral Vasospasm Caused by Cisternal Injection of Polystyrene Latex Beads in Rabbits Is Inhibited by a Serine Protease Inhibitor — H. Yanamoto, H. Kikuchi, S. Okamoto, and K. Nozaki — 374

Effects of Protease Inhibitor and Immunosuppressant on Cerebral Vasospasm After Subarachnoid Hemorrhage in Rabbits	H. Yanamoto, H. Kikuchi, and S. Okamoto	382
Aneurysm at the Origin of Accessory Middle Cerebral Artery Associated with Middle Cerebral Artery Aplasia: Case Report	D.H. Han, H.S. Gwak, and C.K. Chung	388
PEDIATRIC NEUROSURGERY		
Massive Intracerebral Hematoma in a Child with Klippel-Trenaunay Syndrome	Y. Makiyama, H. Nishimoto, C. Fukaya, and T. Tsubokawa	392
Pituitary Hyperplasia Mimicking Pituitary Tumor	M.C. Dadachanji, N.E. Bharucha, and B.G. Jhankaria	397
Adenoid Formation in Medulloblastoma: A Case Report	H.-K. Ng and W.-S. Poon	400
SPINE		
Anterior Cervical Fixation with the Titanium Locking Screw-Plate: A Preliminary Report	T. Tominaga, K. Koshu, K. Mizoi, and T. Yoshimoto	408
Subacute Cervical Epidural Hematomas	J.P. Farias, J.A. Lima, and J.L. Antunes	414
HIV Status Does Not Affect Microbiologic Spectrum or Neurological Outcome in Spinal Infections	R.F. Heary, C.D. Hunt, A.J. Krieger, and C. Vaid	417
Spinal Subdural Abscess: Successful Treatment with Limited Drainage and Antibiotics in a Patient with AIDS	S. Sathi, M. Schwartz, S. Cortez, and E. Rossitch, Jr.	424
Aneurysmal Bone Cysts of the Spine	V.K. Gupta, S.K. Gupta, V.K. Khosla, R.K. Vashisth, and V.K. Kak	428
NEOPLASM		
Primary Pineal Melanoma with Long-Term Survival: Case Report	K. Yamane, T. Shima, Y. Okada, M. Nishida, S. Okita, T. Hatayama, and T. Nishida	433
Trochlear Nerve Neurinoma Associated with a Giant Thrombosed Dissecting Aneurysm of the Contralateral Vertebral Artery	T. Abe, T. Iwata, M. Shimazu, and K. Matsumoto	438
TRAUMA		
Giant Calcified Subdural Empyemas	A. Kulali, C. Erel, F. Özyilmaz, and O. Sïmsek	442
HISTORICAL VIGNETTE		
The Practice of Surgery in Japanese Prison Camp Hospitals in Burma and Siam	A.E. Coates	448

BIOGRAPHY
Charas Suwanwela, M.D. 452

EDITORIAL
Where Is the Best Neurosurgery in the World? J.I. Ausman 454

BOOK REVIEWS 456

ANNOUNCEMENTS 459

Volume 42, Number 6, December 1994

EDITORIAL
Freedom and Responsibility J.I. Ausman 467

POSTOPERATIVE MANAGEMENT
Urokinase Thrombolytic Therapy of Pulmonary Embolism in Neurosurgically Treated Patients — P. Severi, G. Lo Pinto, R. Poggio, and G. Andrioli 469

NEOPLASM
Cerebral Edema in Intracranial Meningiomas: Evidence for Local and Diffuse Patterns and Factors Associated with Its Occurrence — T. Abe, P.McL. Black, R.G. Ojemann, and E.T. Hedley-White 471

Primary Meningioma Intimately Related to Skull: Case Report and Review of the Literature — S. Shuangshoti, S. Siriaungkul, and N. Suwanwela 476

Intracranial Plasma Cell Granuloma: A Report of Four Cases — F. Le Marc'hadour, P. Fransen, F. Labat-Moleur, J.G. Passagia, and B. Pasquier 481

Paraganglioma of the Cauda Equina with Associated Syringomyelia: Case Report — T.R. Steel, P. Botterill, J.P. Sheehy 489

TRAUMA
Transorbital Penetrating Head Injury with a Hunting Arrow: Case Report — O.R. O'Neill, G. Gilliland, J.B. Delashaw, and T.J. Purtzer 494

Atrophy and Maldevelopment of the Ipsilateral Cerebral Hemisphere After Acute Subdural Hematoma in Infants — H. Tomita, U. Ito, O. Tone, H. Masaoka, and B. Tominaga 498

ANATOMY
The Neurovascular Relationships and the Blood Supply of the Oculomotor Nerve: The Microsurgical Anatomy of Its Cisternal Segment — S. Marinković and H. Gibo 505

EXPERIMENTAL
Angiogenesis and the Blood–Brain Barrier in Intracerebral Solid and Cell Suspension Grafts — N. Akalan and M.S. Grady 517

NEW TECHNOLOGY
Intracranial Neurosurgery Guided by Functional Imaging — C.C. Gallen, R. Bucholz, and D.F. Sobel 523

Clinical Experience with Transcranial Cerebral Oximetry — K.V. Slavin, M. Dujovny, J.I. Ausman, G. Hernandez, M. Luer, and H. Stoddart 531

MEETING REPORT
The 62nd Annual Meeting of the American Association of Neurological Surgeons — J. Laidlaw — 541

BIOGRAPHY
Eben Alexander, Jr. M.D. — C.H. Davis — 544

EDITORIAL
Thank You! — J.I. Ausman — 546

BOOK REVIEWS — 547

COMMENTARY
Commentary for Paroxysmal Bilateral Dysomia Treated By Resection of the Olfactory Bulbs — K.R.L. Lassiter — 550

LETTERS TO THE EDITOR — 551

ANNOUNCEMENTS — J.I. Ausman — 555

AUTHOR INDEX — 562

SUBJECT INDEX — 567